

ABSTRACT

An adjustable matching network is provided for a wireless communications device transmitting and receiving signals in multiple frequency bands via an antenna. The adjustable matching network selectively connecting the antenna to a select power amplifier corresponding to a selected transmit frequency band and automatically matching the impedance of the antenna to the select power amplifier. The adjustable matching network also selectively connecting the antenna to a select bandpass filter corresponding to a selected receive frequency band and automatically matching the impedance of the antenna to the select bandpass filter.

09770804, 012601